



IFWO

RAW SEQUENCE LISTING

DATE: 10/06/2004

PATENT APPLICATION: US/10/050,190

TIME: 15:48:33

Input Set : N:\CrF3\RULE60\10050190.raw

Output Set: N:\CRF4\10062004\J050190.raw

```

1 <110> APPLICANT: STEM CELL PHARMACEUTICALS, INC.
2   TWARDZIK, Daniel R.
3   PERNET, Andre
4   FELKER, Thomas S.
5   PASKELL, Stefan
6 <120> TITLE OF INVENTION: TGF-alpha POLYPEPTIDES, FUNCTIONAL FRAGMENTS AND
7   METHODS OF USE THEREFOR
8 <130> FILE REFERENCE: STEM1110-2
9 <140> CURRENT APPLICATION NUMBER: 10/050,190
10 <141> CURRENT FILING DATE: 2002-01-15
11 <150> PRIOR APPLICATION NUMBER: US/09/641,587
12 <151> PRIOR FILING DATE: 2000-08-17
13 <150> PRIOR APPLICATION NUMBER: US 09/559,248
14 <151> PRIOR FILING DATE: 2000-04-26
15 <150> PRIOR APPLICATION NUMBER: US 09/459,813
16 <151> PRIOR FILING DATE: 1999-12-13
17 <150> PRIOR APPLICATION NUMBER: US 09/492,935
18 <151> PRIOR FILING DATE: 2000-01-27
19 <150> PRIOR APPLICATION NUMBER: US 09/378,567
20 <151> PRIOR FILING DATE: 1999-08-19
21 <160> NUMBER OF SEQ ID NOS: 7
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 50
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 1
29   Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys
30   1           5           10           15
31   Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys
32   20           25           30
33   Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu
34   35           40           45
35   Leu Ala
36   50
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 50
40 <212> TYPE: PRT
41 <213> ORGANISM: Rattus norvegicus
42 <400> SEQUENCE: 2
43   Val Val Ser His Phe Asn Lys Cys Pro Asp Ser His Thr Gln Tyr Cys
44   1           5           10           15
45   Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Glu Lys Pro Ala Cys

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46          20          25          30
47      Val Cys His Ser Gly Tyr Val Gly Val Arg Cys Glu His Ala Asp Leu
48          35          40          45
49      Asp Ala
50          50
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 57
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: A modified human TGF-alpha sequence
58 <400> SEQUENCE: 3
59      Ser Leu Ser Leu Pro Ala Met Val Val Ser His Phe Asn Asp Cys Pro
60      1          5          10          15
61      Asp Ser His Thr Gln Phe Cys Phe His Gly Thr Cys Arg Phe Leu Val
62          20          25          30
63      Gln Glu Asp Lys Pro Ala Cys Val Cys His Ser Gly Tyr Val Gly Ala
64          35          40          45
65      Arg Cys Glu His Ala Asp Leu Leu Ala
66          50          55
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 11
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Modified human TGF alpha sequence fragment
74 <220> FEATURE:
75 <221> NAME/KEY: MISC_FEATURE
76 <222> LOCATION: (1)..(10)
77 <223> OTHER INFORMATION: Xaa at residue 1, 5, 7 to 9 is independently V, G or A;
78 <223> OTHER INFORMATION: Xaa at residue 6 is Y or F; and Xaa at residue 10 is R or K
W--> 79 <400> 4
W--> 80      Xaa Cys His Ser Xaa Xaa Xaa Xaa Xaa Cys
81      1          5          10
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 7
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Modified human TGF alpha sequence fragment
89 <220> FEATURE:
90 <221> NAME/KEY: MISC_FEATURE
91 <222> LOCATION: (1)..(7)
92 <223> OTHER INFORMATION: Xaa at residue 1 and 4 is E or D; Xaa at residue 3 and
93      7 is V, G,
94      or A; Xaa at residue 5 is L or I; and Xaa at residue 6 is D or E
95 <400> SEQUENCE: 5
W--> 96      Xaa His Xaa Xaa Xaa Xaa
97      1          5

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99 <210> SEQ ID NO: 6
100 <211> LENGTH: 18
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Modified human TGF alpha sequence fragment
105 <220> FEATURE:
106 <221> NAME/KEY: MISC_FEATURE
107 <222> LOCATION: (1)..(18)
108 <223> OTHER INFORMATION: Xaa at residue 1, 5, 7-9, 14, 18 is indep. V, G, or A;
109     Xaa at
110     residue 6 is Y or F; Xaa at residue 10 is R or K; Xaa at residue 12,
111     15 is indep. E or D; Xaa at residue 16 is L or I; Xaa at residue
W--> 112     17 is D or E
113 <400> SEQUENCE: 6
W--> 114     Xaa Cys His Ser Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa His Xaa Xaa Xaa
115           1             5             10             15
116     Xaa Xaa
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 7
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Modified human TGF alpha sequence fragment
124 <220> FEATURE:
125 <221> NAME/KEY: MISC_FEATURE
126 <222> LOCATION: (1)..(7)
127 <223> OTHER INFORMATION: Xaa at residue 1 and 2 is indep. V, G, and A; Xaa at
128     residue 7 is
129     K or D
130 <400> SEQUENCE: 7
W--> 131     Xaa Xaa Ser His Phe Asn Xaa
132           1             5

```

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

seq#:4; Xaa Pos. 1,5,6,7,8,9,10
seq#:5; Xaa Pos. 1,3,4,5,6,7
seq#:6; Xaa Pos. 1,5,6,7,8,9,10,12,14,15,16,17,18
seq#:7; Xaa Pos. 1,2,7

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

seq#:4; Line(s) 77
seq#:5; Line(s) 92
seq#:6; Line(s) 108

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10050190.raw

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79 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
112 M:259 W: Allowed number of lines exceeded, <223> Other Information:
114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
341 Repeated in SeqNo=6
131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0